

PCT

REQUEST

The undersigned requests that the present international application be processed according to the Patent Cooperation Treaty.

For receiving Office use only

International Application No.

International Filing Date

Name of receiving Office and "PCT International Application"

Applicant's or agent's file reference
(if desired) (12 characters maximum) 09923-017

Box No. I TITLE OF INVENTION

COOLING ASSEMBLY FOR ELECTRIC MACHINE

Box No. II APPLICANT

☐ This person is also inventor

Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country. The country of the address indicated in this Box is the applicant's State (that is, country) of residence if no State of residence is indicated below.)

TM4 INC.
135 J.-A. Bombardier, suite 25
Boucherville, Québec J4B 8P1
CANADA

Telephone No.

450-645-1444

Facsimile No.

450-645-1864

Teleprinter No.

Applicant's registration No. with the Office

State (that is, country) of nationality:

CA

State (that is, country) of residence:

CA

This person is applicant
for the purposes of:

☐ all designated
States

☒ all designated States except
the United States of America

☐ the United States
of America only

☐ the States indicated in
the Supplemental Box

Box No. III FURTHER APPLICANT(S) AND/OR (FURTHER) INVENTOR(S)

Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country. The country of the address indicated in this Box is the applicant's State (that is, country) of residence if no State of residence is indicated below.)

PERRIN, Didier
1323 Avenue Lajoie
Montréal, Québec H2V 1P6
CANADA

This person is:

☐ applicant only

☒ applicant and inventor

☐ inventor only (If this check-box is
marked, do not fill in below.)

Applicant's registration No. with the Office

State (that is, country) of nationality:

FR

State (that is, country) of residence:

CA

This person is applicant
for the purposes of:

☐ all designated
States

☐ all designated States except
the United States of America

☒ the United States
of America only

☐ the States indicated in
the Supplemental Box

☐ Further applicants and/or (further) inventors are indicated on a continuation sheet.

Box No. IV AGENT OR COMMON REPRESENTATIVE; OR ADDRESS FOR CORRESPONDENCE

The person identified below is hereby/has been appointed to act on behalf
of the applicant(s) before the competent International Authorities as:

☒ agent

☐ common
representative

Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country.)

PRINCE, Gaétan; KOSIE, Ronald S.;
FOURNIER, Claude; LUPIEN, Marc
BROUILLETTE KOSIE PRINCE
1100 René-Lévesque Blvd. West, 25th Floor
Montréal, Québec H3B 5C9
CANADA

Telephone No.

514-397-6725

Facsimile No.

514-397-8515

Teleprinter No.

Agent's registration No. with the Office

☐ Address for correspondence: Mark this check-box where no agent or common representative is/has been appointed and the space above is used instead to indicate a special address to which correspondence should be sent.

Best Available Copy

Continuation of Box No. III FURTHER APPLICANT(S) AND/OR (FURTHER) INVENTOR(S)*If none of the following sub-boxes is used, this sheet should not be included in the request.*

Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country. The country of the address indicated in this Box is the applicant's State (that is, country) of residence if no State of residence is indicated below.)

This person is:

- ☐ applicant only
- ☐ applicant and inventor
- ☐ inventor only (If this check-box is marked, do not fill in below.)

Applicant's registration No. with the Office

State (that is, country) of nationality:

State (that is, country) of residence:

This person is applicant for the purposes of:

- ☐ all designated States ☐ all designated States except the United States of America ☐ the United States of America only ☐ the States indicated in the Supplemental Box

Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country. The country of the address indicated in this Box is the applicant's State (that is, country) of residence if no State of residence is indicated below.)

This person is:

- ☐ applicant only
- ☐ applicant and inventor
- ☐ inventor only (If this check-box is marked, do not fill in below.)

Applicant's registration No. with the Office

State (that is, country) of nationality:

State (that is, country) of residence:

This person is applicant for the purposes of:

- ☐ all designated States ☐ all designated States except the United States of America ☐ the United States of America only ☐ the States indicated in the Supplemental Box

Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country. The country of the address indicated in this Box is the applicant's State (that is, country) of residence if no State of residence is indicated below.)

This person is:

- ☐ applicant only
- ☐ applicant and inventor
- ☐ inventor only (If this check-box is marked, do not fill in below.)

Applicant's registration No. with the Office

State (that is, country) of nationality:

State (that is, country) of residence:

This person is applicant for the purposes of:

- ☐ all designated States ☐ all designated States except the United States of America ☐ the United States of America only ☐ the States indicated in the Supplemental Box

Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country. The country of the address indicated in this Box is the applicant's State (that is, country) of residence if no State of residence is indicated below.)

This person is:

- ☐ applicant only
- ☐ applicant and inventor
- ☐ inventor only (If this check-box is marked, do not fill in below.)

Applicant's registration No. with the Office

State (that is, country) of nationality:

State (that is, country) of residence:

This person is applicant for the purposes of:

- ☐ all designated States ☐ all designated States except the United States of America ☐ the United States of America only ☐ the States indicated in the Supplemental Box

☐ Further applicants and/or (further) inventors are indicated on another continuation sheet.

Supplemental Box*If the Supplemental Box is not used, this sheet should not be included in the request.*

1. *If, in any of the Boxes, except Boxes Nos. VIII(i) to (v) for which a special continuation box is provided, the space is insufficient to furnish all the information: in such case, write "Continuation of Box No." (indicate the number of the Box) and furnish the information in the same manner as required according to the captions of the Box in which the space was insufficient, in particular:*
 - (i) *if more than two persons are to be indicated as applicants and/or inventors and no "continuation sheet" is available: in such case, write "Continuation of Box No. III" and indicate for each additional person the same type of information as required in Box No. III. The country of the address indicated in this Box is the applicant's State (that is, country) of residence if no State of residence is indicated below;*
 - (ii) *if, in Box No. II or in any of the sub-boxes of Box No. III, the indication "the States indicated in the Supplemental Box" is checked: in such case, write "Continuation of Box No. II" or "Continuation of Box No. III" or "Continuation of Boxes No. II and No. III" (as the case may be), indicate the name of the applicant(s) involved and, next to (each) such name, the State(s) (and/or, where applicable, ARIPO, Eurasian, European or OAPI patent) for the purposes of which the named person is applicant;*
 - (iii) *if, in Box No. II or in any of the sub-boxes of Box No. III, the inventor or the inventor/applicant is not inventor for the purposes of all designated States or for the purposes of the United States of America: in such case, write "Continuation of Box No. II" or "Continuation of Box No. III" or "Continuation of Boxes No. II and No. III" (as the case may be), indicate the name of the inventor(s) and, next to (each) such name, the State(s) (and/or, where applicable, ARIPO, Eurasian, European or OAPI patent) for the purposes of which the named person is inventor;*
 - (iv) *if, in addition to the agent(s) indicated in Box No. IV, there are further agents: in such case, write "Continuation of Box No. IV" and indicate for each further agent the same type of information as required in Box No. IV;*
 - (v) *if, in Box No. VI, there are more than three earlier applications whose priority is claimed: in such case, write "Continuation of Box No. VI" and indicate for each additional earlier application the same type of information as required in Box No. VI.*
2. *If the applicant intends to make an indication of the wish that the international application be treated, in certain designated States, as an application for a patent of addition, certificate of addition, inventor's certificate of addition or utility certificate of addition: in such a case, write the name or two-letter code of each designated State concerned and the indication "patent of addition," "certificate of addition," "inventor's certificate of addition" or "utility certificate of addition," the number of the parent application or parent patent or other parent grant and the date of grant of the parent patent or other patent grant or the date of filing of the parent application (Rules 4.11(a)(iii) and 49bis.1(a) or (b)).*
3. *If the applicant intends to make an indication of the wish that the international application be treated, in the United States of America, as a continuation or continuation-in-part of an earlier application: in such a case, write "United States of America" or "US" and the indication "continuation" or "continuation-in-part" and the number and the filing date of the parent application (Rules 4.11(a)(iv) and 49bis.1(d)).*

Box No. V DESIGNATIONS

The filing of this request constitutes under Rule 4.9(a), the designation of all Contracting States bound by the PCT on the international filing date, for the grant of every kind of protection available and, where applicable, for the grant of both regional and national patents.

However,

- ☐ DE Germany is not designated for any kind of national protection
- ☐ KR Republic of Korea is not designated for any kind of national protection
- ☐ RU Russian Federation is not designated for any kind of national protection

(The check-boxes above may be used to exclude (irrevocably) the designations concerned in order to avoid the ceasing of the effect, under the national law, of an earlier national application from which priority is claimed. See the Notes to Box No. V as to the consequences of such national law provisions in these and certain other States.)

Box No. VI PRIORITY CLAIM

The priority of the following earlier application(s) is hereby claimed:

Filing date of earlier application (day/month/year)	Number of earlier application	Where earlier application is:		
		national application: country or Member of WTO	regional application:* regional Office	international application: receiving Office
item (1) 4 December 2003 (04.12.2003)	2,452,085	CA		
item (2)				
item (3)				

☐ Further priority claims are indicated in the Supplemental Box.

The receiving Office is requested to prepare and transmit to the International Bureau a certified copy of the earlier application(s) (only if the earlier application was filed with the Office which for the purposes of this international application is the receiving Office) identified above as:

☐ all items ☒ item (1) ☐ item (2) ☐ item (3) ☐ other, see Supplemental Box

* Where the earlier application is an ARIPO application, indicate at least one country party to the Paris Convention for the Protection of Industrial Property or one Member of the World Trade Organization for which that earlier application was filed (Rule 4.10(b)(ii)):

Box No. VII INTERNATIONAL SEARCHING AUTHORITY

Choice of International Searching Authority (ISA) (if two or more International Searching Authorities are competent to carry out the international search, indicate the Authority chosen; the two-letter code may be used):

ISA / CA

Request to use results of earlier search; reference to that search (if an earlier search has been carried out by or requested from the International Searching Authority):

Date (day/month/year)

Number

Country (or regional Office)

Box No. VIII DECLARATIONS

The following declarations are contained in Boxes Nos. VIII (i) to (v) (mark the applicable check-boxes below and indicate in the right column the number of each type of declaration):

Number of
declarations

- | | | |
|---|--|---|
| <input type="checkbox"/> Box No. VIII (i) | Declaration as to the identity of the inventor | : |
| <input type="checkbox"/> Box No. VIII (ii) | Declaration as to the applicant's entitlement, as at the international filing date, to apply for and be granted a patent | : |
| <input type="checkbox"/> Box No. VIII (iii) | Declaration as to the applicant's entitlement, as at the international filing date, to claim the priority of the earlier application | : |
| <input type="checkbox"/> Box No. VIII (iv) | Declaration of inventorship (only for the purposes of the designation of the United States of America) | : |
| <input type="checkbox"/> Box No. VIII (v) | Declaration as to non-prejudicial disclosures or exceptions to lack of novelty | : |

Box No. VIII (i) DECLARATION: IDENTITY OF THE INVENTOR

The declaration must conform to the standardized wording provided for in Section 211; see Notes to Boxes Nos. VIII, VIII (i) to (v) (in general) and the specific Notes to Box No. VIII (i). If this Box is not used, this sheet should not be included in the request.

Declaration as to the identity of the inventor (Rules 4.17(i) and 51bis.1(a)(i)):

☐ This declaration is continued on the following sheet, "Continuation of Box No. VIII (i)".

Box No. VIII (ii) DECLARATION: ENTITLEMENT TO APPLY FOR AND BE GRANTED A PATENT

The declaration must conform to the standardized wording provided for in Section 212; see Notes to Boxes Nos. VIII, VIII (i) to (v) (in general) and the specific Notes to Box No. VIII (ii). If this Box is not used, this sheet should not be included in the request.

Declaration as to the applicant's entitlement, as at the international filing date, to apply for and be granted a patent (Rules 4.17(ii) and 51 bis. 1(a)(ii)), in a case where the declaration under Rule 4.17(iv) is not appropriate:

☐ This declaration is continued on the following sheet, "Continuation of Box No. VIII (ii)".

Box No. VIII (iii) DECLARATION: ENTITLEMENT TO CLAIM PRIORITY

The declaration must conform to the standardized wording provided for in Section 213; see Notes to Boxes Nos. VIII, VIII (i) to (v) (in general) and the specific Notes to Box No. VIII (iii). If this Box is not used, this sheet should not be included in the request.

Declaration as to the applicant's entitlement, as at the international filing date, to claim the priority of the earlier application specified below, where the applicant is not the applicant who filed the earlier application or where the applicant's name has changed since the filing of the earlier application (Rules 4.17(iii) and 51bis.1(a)(iii)):

☐ This declaration is continued on the following sheet, "Continuation of Box No. VIII (iii)".

Box No. VIII (iv) DECLARATION: INVENTORSHIP (only for the purposes of the designation of the United States of America)

The declaration must conform to the following standardized wording provided for in Section 214; see Notes to Boxes Nos. VIII, VIII (i) to (v) (in general) and the specific Notes to Box No. VIII (iv). If this Box is not used, this sheet should not be included in the request.

**Declaration of inventorship (Rules 4.17(iv) and 51bis.1(a)(iv))
for the purposes of the designation of the United States of America:**

I hereby declare that I believe I am the original, first and sole (if only one inventor is listed below) or joint (if more than one inventor is listed below) inventor of the subject matter which is claimed and for which a patent is sought.

This declaration is directed to the international application of which it forms a part (if filing declaration with application).

This declaration is directed to international application No. PCT/..... (if furnishing declaration pursuant to Rule 26ter).

I hereby declare that my residence, mailing address, and citizenship are as stated next to my name.

I hereby state that I have reviewed and understand the contents of the above-identified international application, including the claims of said application. I have identified in the request of said application, in compliance with PCT Rule 4.10, any claim to foreign priority, and I have identified below, under the heading "Prior Applications," by application number, country or Member of the World Trade Organization, day, month and year of filing, any application for a patent or inventor's certificate filed in a country other than the United States of America, including any PCT international application designating at least one country other than the United States of America, having a filing date before that of the application on which foreign priority is claimed.

Prior Applications:

I hereby acknowledge the duty to disclose information that is known by me to be material to patentability as defined by 37 C.F.R. § 1.56, including for continuation-in-part applications, material information which became available between the filing date of the prior application and the PCT international filing date of the continuation-in-part application.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Name:

Residence:
(city and either US state, if applicable, or country)

Mailing Address:

Citizenship:

Inventor's Signature:	Date:
(if not contained in the request, or if declaration is corrected or added under Rule 26ter after the filing of the international application. The signature must be that of the inventor, not that of the agent)	(of signature which is not contained in the request, or of the declaration that is corrected or added under Rule 26ter after the filing of the international application)

Name:

Residence:
(city and either US state, if applicable, or country)

Mailing Address:

Citizenship:

Inventor's Signature:	Date:
(if not contained in the request, or if declaration is corrected or added under Rule 26ter after the filing of the international application. The signature must be that of the inventor, not that of the agent)	(of signature which is not contained in the request, or of the declaration that is corrected or added under Rule 26ter after the filing of the international application)

☐ This declaration is continued on the following sheet, "Continuation of Box No. VIII (iv)".

Box No. VIII (v) DECLARATION: NON-PREJUDICIAL DISCLOSURES OR EXCEPTIONS TO LACK OF NOVELTY

The declaration must conform to the standardized wording provided for in Section 215; see Notes to Boxes Nos. VIII, VIII (i) to (v) (in general) and the specific Notes to Box No. VIII (v). If this Box is not used, this sheet should not be included in the request.

Declaration as to non-prejudicial disclosures or exceptions to lack of novelty (Rules 4.17(v) and 51bis.1(a)(v)):

☐ This declaration is continued on the following sheet, "Continuation of Box No. VIII (v)".

Continuation of Box No. VIII (i) to (v) DECLARATION

If the space is insufficient in any of Boxes Nos. VIII (i) to (v) to furnish all the information, including in the case where more than two inventors are to be named in Box No. VIII (iv), in such case, write "Continuation of Box No. VIII ..." (indicate the item number of the Box) and furnish the information in the same manner as required for the purposes of the Box in which the space was insufficient. If additional space is needed in respect of two or more declarations, a separate continuation box must be used for each such declaration. If this Box is not used, this sheet should not be included in the request.

Box No. IX CHECK LIST; LANGUAGE OF FILING

This international application contains:	This international application is accompanied by the following item(s) (mark the applicable check-boxes below and indicate in right column the number of each item):	Number of items
(a) in paper form , the following number of sheets:	1. <input checked="" type="checkbox"/> fee calculation sheet	1
request (including declaration sheets) : 3	2. <input checked="" type="checkbox"/> original separate power of attorney	2
description (excluding sequence listing and/or tables related thereto) : 9	3. <input type="checkbox"/> original general power of attorney	
claims : 5	4. <input type="checkbox"/> copy of general power of attorney; reference number, if any:	
abstract : 1	5. <input type="checkbox"/> statement explaining lack of signature	
drawings : 4	6. <input type="checkbox"/> priority document(s) identified in Box No. VI as item(s):	
Sub-total number of sheets : 22	7. <input type="checkbox"/> translation of international application into (language):	
sequence listing :	8. <input type="checkbox"/> separate indications concerning deposited microorganism or other biological material	
tables related thereto :	9. <input type="checkbox"/> sequence listing in computer readable form (indicate type and number of carriers)	
(for both, actual number of sheets if filed in paper form, whether or not also filed in computer readable form; see (c) below)	(i) <input type="checkbox"/> copy submitted for the purposes of international search under Rule 13ter only (and not as part of the international application)	
Total number of sheets : 22	(ii) <input type="checkbox"/> (only where check-box (b)(i) or (c)(i) is marked in left column) additional copies including, where applicable, the copy for the purposes of international search under Rule 13ter	
(b) <input type="checkbox"/> only in computer readable form (Section 801(a)(i))	(iii) <input type="checkbox"/> together with relevant statement as to the identity of the copy or copies with the sequence listing mentioned in left column	
(i) <input type="checkbox"/> sequence listing	10. <input type="checkbox"/> tables in computer readable form related to sequence listing (indicate type and number of carriers)	
(ii) <input type="checkbox"/> tables related thereto	(i) <input type="checkbox"/> copy submitted for the purposes of international search under Section 802(b-quater) only (and not as part of the international application)	
(c) <input type="checkbox"/> also in computer readable form (Section 801(a)(ii))	(ii) <input type="checkbox"/> (only where check-box (b)(ii) or (c)(ii) is marked in left column) additional copies including, where applicable, the copy for the purposes of international search under Section 802(b-quater)	
(i) <input type="checkbox"/> sequence listing	(iii) <input type="checkbox"/> together with relevant statement as to the identity of the copy or copies with the tables mentioned in left column	
(ii) <input type="checkbox"/> tables related thereto	11. <input type="checkbox"/> other (specify):	
Type and number of carriers (diskette, CD-ROM, CD-R or other) on which are contained the		
<input type="checkbox"/> sequence listing:		
<input type="checkbox"/> tables related thereto:		
(additional copies to be indicated under items 9(ii) and/or 10(ii), in right column)		

Figure of the drawings which should accompany the abstract:

Language of filing of the international application:

ENGLISH

Box No. X SIGNATURE OF APPLICANT, AGENT OR COMMON REPRESENTATIVE

Next to each signature, indicate the name of the person signing and the capacity in which the person signs (if such capacity is not obvious from reading the request).

BROUILLETTE KOSIE PRINCE

by: _____
Marc LUPIEN

For receiving Office use only

1. Date of actual receipt of the purported international application:	2. Drawings: <input type="checkbox"/> received: <input type="checkbox"/> not received:
3. Corrected date of actual receipt due to later but timely received papers or drawings completing the purported international application:	
4. Date of timely receipt of the required corrections under PCT Article 11(2):	
5. International Searching Authority (if two or more are competent): ISA /	6. <input type="checkbox"/> Transmittal of search copy delayed until search fee is paid

For International Bureau use only

Date of receipt of the record copy by the International Bureau:

NOTES TO THE REQUEST FORM (PCT/RO/101)

These Notes are intended to facilitate the filling in of the request form. For more detailed information, see the *PCT Applicant's Guide*, a WIPO publication, which is available, together with other PCT related documents, at WIPO's Website: www.wipo.int/pct/en/index.html. The Notes are based on the requirements of the Patent Cooperation Treaty (PCT), the Regulations and the Administrative Instructions under the PCT. In case of any discrepancy between these Notes and those requirements, the latter are applicable.

In the request form and these Notes, "Article", "Rule" and "Section" refer to the provisions of the PCT, the PCT Regulations and the PCT Administrative Instructions, respectively.

Please use a typewriter; check-boxes may be marked by hand with black ink (Rule 11.9(a) and (b)).

The request form and these Notes may be downloaded from WIPO's Website at the address given above.

WHERE TO FILE THE INTERNATIONAL APPLICATION

The international application (request, description, claims, abstract and drawings, if any) must be filed with a competent receiving Office (Article 11(1)(i))—that is, subject to any applicable prescriptions concerning national security, at the choice of the applicant, either:

(i) the receiving Office of, or acting for, a PCT Contracting State of which the applicant or, if there are two or more applicants, at least one of them, is a resident or national (Rule 19.1(a)(i) or (ii) or (b)), or

(ii) the International Bureau of WIPO in Geneva, Switzerland, if the applicant or, if there are two or more applicants, at least one of the applicants is a resident or national of any PCT Contracting State (Rule 19.1(a)(iii)).

APPLICANT'S OR AGENT'S FILE REFERENCE

A file reference may be indicated, if desired. It should not exceed 12 characters. Characters in excess of 12 may be disregarded by the receiving Office or any International Authority (Rule 11.6(f) and Section 109).

BOX No. I

Title of Invention (Rules 4.3 and 5.1(a)): The title must be short (preferably two to seven words when in English or translated into English) and precise. It must be identical with the title heading the description.

BOXES Nos. II AND III

General: At least one of the applicants named must be a resident or national of a PCT Contracting State for which the receiving Office acts (Articles 9 and 11(1)(i) and Rules 18 and 19). If the international application is filed with the International Bureau under Rule 19.1(a)(iii), at least one of the applicants must be a resident or national of any PCT Contracting State.

Indication Whether a Person is Applicant and/or Inventor (Rules 4.5(a) and 4.6(a) and (b)):

All of the inventors must be named also as applicants for the purposes of the designation of the United States of America (see "Different Applicants for Different Designated States", below).

Check-box "This person is also inventor" (Box No. II): Mark this check-box if the applicant named is also the inventor or one of the inventors; do not mark this check-box if the applicant is a legal entity.

Check-box "applicant and inventor" (Box No. III): Mark this check-box if the person named is both applicant and inventor; do not mark this check-box if the person is a legal entity.

Check-box "applicant only" (Box No. III): Mark this check-box if the person named is a legal entity or if the person named is not also inventor.

Check-box "inventor only" (Box No. III): Mark this check-box if the person named is inventor but not also applicant. This would be the case in particular where the inventor is deceased or the particular inventor is not an inventor for the purposes of the designation of the United States of America. Do not mark this check-box if the person is a legal entity.

In Box No. III, one of the three check-boxes must always be marked for each person named.

A person must not be named more than once in Boxes Nos. II and III, even where that person is both applicant and inventor.

Different Applicants for Different Designated States (Rules 4.5(d), 18.3 and 19.2): It is possible to indicate different applicants for the purposes of different designated States. At least one of all the applicants named must be a national or resident of a PCT Contracting State for which the receiving Office acts, irrespective of the designated State(s) for the purposes of which that applicant is named. *All of the inventors must be named also as applicants for the United States of America (except as indicated above) and the check-boxes "This person is also inventor" (in Box No. II) and/or "applicant and inventor" (in Box No. III) must be marked.*

For the indication of the designated States for which a person is applicant, mark the applicable check-box (only one for each person). The check-box "the States indicated in the Supplemental Box" must be marked where none of the other three check-boxes fits the circumstances; in such a case, the name of the person must be repeated in the Supplemental Box with an indication of the States for which that person is applicant (see item 1(ii) in that Box).

Naming of Inventor (Rule 4.1(a)(v) and (c)(i)): The inventor's name and address must be indicated since the national law of the United States of America requires that the name of the inventor be furnished at the time of filing. It is strongly recommended to always name the inventor. For details, see the *PCT Applicant's Guide*, Volume I/A, Annexes B1 and B2.

Different Inventors for Different Designated States (Rule 4.6(c)): Different persons may be indicated as inventors for different designated States (for example, where, in this respect, the requirements of the national laws of the designated States are not the same); in such a case, the Supplemental Box must be used (see item 1(iii) in that Box). In the absence of any indication, it will be assumed that the inventor(s) named is (are) inventor(s) for all designated States.

Names and Addresses (Rule 4.4): The family name (preferably in capital letters) must be indicated before the given name(s). Titles and academic degrees must be omitted. Names of legal entities must be indicated by their full official designations.

The address must be indicated in such a way that it allows prompt postal delivery; it must consist of all the relevant administrative units (up to and including the indication of the house number, if any), the postal code (if any), and the name of the country.

Only one address may be indicated per person. For the indication of a special "address for correspondence", see the notes to Box No. IV.

Telephone, Facsimile and/or Teleprinter Numbers should be indicated for the person named in Box No. II in order to allow rapid communication with the applicant. Any such number should include the applicable country and area codes.

Applicant's Registration Number with the Office (Rule 4.5(e)): Where the applicant is registered with the national or regional Office acting as receiving Office, the request may indicate the number or other indication under which the applicant is so registered.

Nationality (Rules 4.5(a) and (b) and 18.1): For each applicant, the nationality must be indicated by the name or two-letter code of the State (that is, country) of which the person is a national. A legal entity constituted according to the national law of a State is considered a national of that State. The indication of the nationality is not required where a person is inventor only.

Residence (Rules 4.5(a) and (c) and 18.1): For each applicant, the residence must be indicated by the name or two-letter code of the State (that is, country) of which the person is a resident. If the State of residence is not indicated, it will be assumed to be the same as the State indicated in the address. Possession of a real and effective industrial or commercial establishment in a State is considered residence in that State. The indication of the residence is not required where a person is inventor only.

Names of States (Section 115): For the indication of names of States, the two-letter codes appearing in WIPO Standard ST.3 and in the *PCT Applicant's Guide*, Volume I/B, Annex K, may be used.

BOX No. IV

Who Can Act as Agent (Article 49 and Rule 83.1bis): For each of the receiving Offices, information as to who can act as agent is given in the *PCT Applicant's Guide*, Volume I/B, Annex C.

Agent or Common Representative (Rules 4.7, 4.8, 90.1 and 90.2 and Section 108): Mark the applicable check-box in order to indicate whether the person named is (or has been) appointed as "agent" or "common representative" (the "common representative" must be one of the applicants). For the manner in which name(s) and address(es) (including names of States) must be indicated, see the notes to Boxes Nos. II and III. Where several agents are listed, the agent to whom correspondence should be addressed is to be listed first. If there are two or more applicants but no common agent is appointed to represent all of them, one of the applicants who is a national or resident of a PCT Contracting State may be appointed by the other applicants as their common representative. If this is not done, the applicant first named in the request who is entitled to file an international application with the receiving Office concerned will be considered to be the common representative.

Manner of Appointment of Agent or Common Representative (Rules 90.4 and 90.5 and Section 106): The appointment of an agent or a common representative may be effected by designating the agent or common representative in Box No. IV and by the applicant signing the request or a separate power of attorney. Where there are two or more applicants, the appointment of a common agent or common representative must be effected by each applicant signing, at his choice, the request or a separate power of attorney. If the

separate power of attorney is not signed, or if the required separate power of attorney is missing, or if the indication of the name or address of the appointed person does not comply with Rule 4.4, the power of attorney will be considered non-existent unless the defect is corrected. However, the receiving Office may waive the requirement that a separate power of attorney be submitted to it (for details about each receiving Office, see the *PCT Applicant's Guide*, Volume I/B, Annex C).

Where a general power of attorney has been filed and is referred to in the request, a copy thereof must be attached to the request. Any applicant who did not sign the general power of attorney must sign either the request or a separate power of attorney, unless the receiving Office has waived the requirement that a separate power of attorney be submitted to it (for details, see the *PCT Applicant's Guide*, Volume I/B, Annex C).

Agent's Registration Number with the Office (Rule 4.7(b)): Where the agent is registered with the national or regional Office that is acting as receiving Office, the request may indicate the number or other indication under which the agent is so registered.

Address for Correspondence (Rule 4.4(d) and Section 108): Where an agent is appointed, any correspondence intended for the applicant will be sent to the address indicated for that agent (or for the first-mentioned agent, if more than one is appointed). Where one of two or more applicants is appointed as common representative, the address indicated for that applicant in Box No. IV will be used.

Where no agent or common representative is appointed, any correspondence will be sent to the address, indicated in Box No. II or III, of the applicant (if only one person is named as applicant) or of the applicant who is considered to be common representative (if there are two or more persons named as applicants). However, if the applicant wishes correspondence to be sent to a different address in such a case, that address must be indicated in Box No. IV instead of the designation of an agent or common representative. In this case, and only in this case, the last check-box of Box No. IV must be marked (that is, the last check-box must not be marked if either of the check-boxes "agent" or "common representative" has been marked).

BOX No. V

Designations (Regional and national patents) (Rule 4.9): Upon filing of the request, the applicant will obtain an automatic and all-inclusive coverage of all designations available under the PCT on the international filing date, in respect of every kind of protection available and, where applicable, in respect of both regional and national patents. If the applicant wishes the international application to be treated, in a certain designated or elected State, as an application not for a patent but for another kind of protection available under the national law of the designated or elected State concerned, the applicant will have to indicate his choice directly to the designated or elected Office when performing the acts, referred to in Articles 22 or 39(1), for entry into the national phase. For details about various kinds of protection available in designated or elected States, see the *PCT Applicant's Guide*, Volume I/A, Annexes B1 and B2.

However, for the reasons explained below, it is possible to indicate, by marking the applicable check-box(es), that DE Germany, KR Republic of Korea and/or RU Russian Federation are not designated for any kind of national protection. Each of those States has notified the International Bureau that Rule 4.9(b) applies to it since its national law provides that the filing of an international application which contains the designation of that State and claims the priority of an earlier national application (for DE: for the same kind of protection) having effect in that State shall have the result that the earlier national application ceases, where applicable, after the expiration of certain time limits, to have effect with the same consequences as the withdrawal of the earlier national application. The designation of DE Germany for the purposes of a EP European patent and of

RU Russian Federation for the purposes of a EA Eurasian patent are not affected by what is said above. For details see the *PCT Applicant's Guide*, Volume I/A, in the relevant Annex B1.

Even though no other State has notified the International Bureau that Rule 4.9(b) applies to it, note that the consequences described above with respect to the earlier national application whose priority is claimed may also apply to other States, for example, JP Japan. For details, see the *PCT Applicant's Guide*, Volume I/A, in the relevant Annex B1. Therefore, the applicant may wish to consider submitting, separately from the request, a separate notice of withdrawal of the designation concerned. **Important:** Should a notice of withdrawal be filed, that notice will have to be signed by the applicant or, if there are two or more applicants, by all of them (Rule 90bis.5(a)), or by an agent or a common representative whose appointment has been effected by each applicant signing, at his choice, the request, the demand or a separate power of attorney (Rule 90.4(a)).

BOX No. VI

Priority Claim(s) (Rule 4.10): If the priority of an earlier application is claimed, the declaration containing the priority claim must be made in the request.

The request must indicate the *date* on which the earlier application from which priority is claimed was filed and the *number* it was assigned. Note that that date must fall within the period of 12 months preceding the international filing date.

Where the earlier application is a national application, the *country* party to the Paris Convention for the Protection of Industrial Property, or the *Member* of the World Trade Organization that is not a party to that Convention, in which that earlier application was filed must be indicated. Where the earlier application is a regional application, the *regional Office* concerned must be indicated. Where the earlier application is an international application, the *receiving Office* with which that earlier application was filed must be indicated.

Where the earlier application is a regional application (other than an ARIPO application), or an international application, the priority claim may also, if the applicant so wishes, indicate one or more countries party to the Paris Convention for which that earlier application was filed (Rule 4.10(b)(i)); such an indication is not, however, mandatory. Where the earlier application is an ARIPO application, at least one country party to the Paris Convention or one Member of the World Trade Organization for which that earlier application was filed must be indicated (Rule 4.10(b)(ii)).

As to the possibility of correcting or adding a priority claim, see Rule 26bis and the *PCT Applicant's Guide*, Volume I/A, General Part.

Certified Copy of Earlier Application (Rule 17.1): A certified copy of each earlier application the priority of which is claimed (priority document) must be submitted by the applicant, irrespective of whether that earlier application is a national, regional or international application. The priority document must be submitted to the receiving Office or to the International Bureau before the expiration of 16 months from the (earliest) priority date or, where an early start of the national phase is requested, not later than at the time such request is made. Any priority document received by the International Bureau after the expiration of the 16-month time limit but before the date of international publication shall be considered to have been received on the last day of that time limit (Rule 17.1(a)).

Where the priority document is issued by the receiving Office, the applicant may, instead of submitting the priority document, request the receiving Office (not later than 16 months after the priority date) to prepare and transmit the priority document to the International Bureau (Rule 4.1(c)(ii)). Such request may be made by marking the applicable check-boxes which identify the respective documents. *Attention:* where

such a request is made, the applicant must, where applicable, pay to the receiving Office the *fee for priority document*, otherwise, the request will be considered not to have been made (see Rule 17.1(b)).

Dates (Section 110): Dates must be indicated by the Arabic number of the day, the name of the month and the Arabic number of the year—in that order; after, below or above such indication, the date should be repeated in parentheses, using two-digit Arabic numerals each for the number of the day and for the number of the month followed by the number of the year in four digits, in that order and separated by periods, slants or hyphens, for example, “20 March 2004 (20.03.2004)”, “20 March 2004 (20/03/2004)” or “20 March 2004 (20-03-2004)”.

BOX No. VII

Choice of International Searching Authority (ISA) (Rules 4.1(b)(iv) and 4.14bis): If two or more International Searching Authorities are competent for carrying out the international search in relation to the international application—depending on the language in which that application is filed and the receiving Office with which it is filed—the name of the competent Authority chosen by the applicant must be indicated in the space provided, either by its full name or two-letter code.

Request to Use Results of Earlier Search; Reference to that Search (Rules 4.11(a)(i) and (ii) and 41.1): The earlier search, if any, must be identified in such a manner that the ISA can retrieve the results easily. Where those results can be used, the ISA may refund the international search fee or a portion thereof.

BOX No. VIII

Declarations Containing Standardized Wording (Rules 4.1(c)(iii) and 4.17): At the option of the applicant, the request may, for the purposes of the national law applicable in one or more designated States, contain one or more of the following declarations:

- (i) declaration as to the identity of the inventor;
- (ii) declaration as to the applicant's entitlement, as at the international filing date, to apply for and be granted a patent;
- (iii) declaration as to the applicant's entitlement, as at the international filing date, to claim the priority of the earlier application;
- (iv) declaration of inventorship (only for the purposes of the designation of the United States of America);
- (v) declaration as to non-prejudicial disclosures or exceptions to lack of novelty;

which must conform to the standardized wording provided for in Sections 211 to 215, respectively, and which must be set forth in Boxes Nos. VIII (i) to (v), as detailed below. Where any such declarations are included, the appropriate check-boxes in Box No. VIII should be marked and the number of each type of declaration should be indicated in the right-hand column. As to the possibility of correcting or adding a declaration, see Rule 26ter, Section 216 and the *PCT Applicant's Guide*, Volume I/A, General Part.

If the circumstances of a particular case are such that the standardized wordings are not applicable, the applicant should not attempt to make use of the declarations provided for in Rule 4.17 but rather will have to comply with the national requirements concerned upon entry into the national phase.

The fact that a declaration is made under Rule 4.17 does not of itself establish the matters declared; the effect of those matters in the designated States concerned will be determined by the designated Offices in accordance with the applicable national law.

Even if the wording of a declaration does not conform to the standardized wording provided for in the Administrative Instructions pursuant to Rule 4.17, any designated Office may accept that declaration for the purposes of the applicable national law, but is not required to do so.

Details as to National Law Requirements: For information on the declarations required by each designated Office, see the *PCT Applicant's Guide*, Volume II, in the relevant National Chapter.

Effect in Designated Offices (Rule 51bis.2): Where the applicant submits any of the declarations provided for in Rule 4.17(i) to (iv) containing the required standardized wording (either with the international application, or to the International Bureau within the relevant time limit under Rule 26ter, or directly to the designated Office during the national phase), the designated Office may not, in the national phase, require further documents or evidence on the matter to which the declaration relates, unless that designated Office may reasonably doubt the veracity of the declaration concerned.

Incompatibility of Certain Items of Rule 51bis.2(a) with National Laws (Rule 51bis.2(c)): Certain designated Offices listed below have informed the International Bureau that the applicable national law is not compatible in respect of certain declarations provided in Rule 4.17(i), (ii) and (iii). Those designated Offices are therefore entitled to require further documents or evidence on the matters to which those declarations relate. For regularly updated information on such Offices, see the WIPO Website:
http://www.wipo.int/pct/en/texts/reservations/res_incomp.pdf.

BOXES Nos. VIII (i) to (v) (IN GENERAL)

Different Declaration Boxes: There are six different declaration boxes in the pre-printed request form—one box for each of the five different types of declarations provided for in Rule 4.17 (Box No. VIII (i) to Box No. VIII (v)) and a continuation sheet (Continuation of Box No. VIII (i) to (v)) to be used in case any single declaration does not fit in the corresponding box. The title of each type of declaration which is found in the standardized wording provided for in the Administrative Instructions is pre-printed on the appropriate sheet of the request.

Separate Sheet for Each Declaration: Each declaration must start on a separate sheet of the request form in the appropriate Declaration Box.

Titles, Items, Item Numbers, Dotted Lines, Words in Parentheses and Words in Brackets: The prescribed standardized wording of the declarations includes titles, various items, item numbers, dotted lines, words in parentheses and words in brackets. Except for Box No. VIII (iv) which contains the pre-printed standardized wording, only those items which are applicable should be included in a declaration where necessary to support the statements in that declaration (that is, omit those items which do not apply) and item numbers need not be included. Dotted lines indicate where information is required to be inserted. Words in parentheses are instructions to applicants as to the information which may be included in the declaration depending upon the factual circumstances. Words in brackets are optional and should appear in the declaration without the brackets if they apply; if they do not apply, they should be omitted together with the corresponding brackets.

Naming of Several Persons: More than one person may be named in a single declaration. In the alternative, with one exception, a separate declaration may be made for each person. With respect to the declaration of inventorship set forth in Box No. VIII (iv), which is applicable only for the purposes of the

designation of the United States of America, all inventors must be indicated in a single declaration (see Notes to Box No. VIII (iv), below). The wording of declarations to be set forth in Boxes Nos. VIII (i), (ii), (iii) and (v) may be adapted from the singular to the plural as necessary.

Designated States to Which the Declarations Apply: Each declaration must indicate the designated States to which it applies. In this regard, the standardized wording of the declaration of inventorship (Box No. VIII (iv); see also Rule 4.17(iv) and Section 214) indicates in the title that it is for the purposes of the designation of the United States of America. The other declarations include prescribed wording to indicate whether the declaration is made for all designations or specific designations; one of these choices should always be included in the declaration. Where the declaration is for more than one person, the declaration may include separate statements indicating whether the declaration is made for all designations or specific designations with respect to each separate applicant. For example, this may be expected to occur where the request indicates different applicants for different States in accordance with Rule 4.5(d). However, in such a case, it is advisable to include a separate declaration for each person.

BOX No. VIII (i)

Declaration as to the Identity of the Inventor (Rule 4.17(i) and Section 211): The declaration must be worded as follows:

“Declaration as to the identity of the inventor (Rules 4.17(i) and 51bis.1(a)(i)):

in relation to [this] international application [No. PCT/...],

- (i) ... (name) of ... (address) is the inventor of the subject matter for which protection is sought by way of [the] [this] international application
- (ii) this declaration is made for the purposes of (include as applicable):
 - (a) all designations [except the designation of the United States of America]
 - (b) the following designations for national and/or regional patents: ...”

Such a declaration is not necessary in respect of any inventor who is indicated as such (either as inventor only or applicant and inventor) in Box No. II or No. III in accordance with Rule 4.5 or 4.6. However, where the inventor is indicated as applicant in Box No. II or No. III in accordance with Rule 4.5, a declaration as to the applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii)) may be appropriate for the purposes of all designated States except the United States of America. Where indications regarding the inventor in accordance with Rule 4.5 or 4.6 are not included in Box No. II or No. III, this declaration may be combined with the prescribed wording of the declaration as to the applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii)). For details on such a combined declaration, see Notes to Box No. VIII (ii), below. For details as to the declaration of inventorship for the purposes of the designation of the United States of America, see Notes to Box No. VIII (iv), below.

BOX No. VIII (ii)

Declaration as to the Applicant's Entitlement to Apply for and Be Granted a Patent (Rule 4.17(ii) and Section 212): The declaration must be worded as follows, with such inclusion, omission, repetition and re-ordering of the matters listed as items (i) to (viii) as is necessary to explain the applicant's entitlement:

“Declaration as to the applicant's entitlement, as at the international filing date, to apply for and be granted a patent (Rules 4.17(ii) and 51bis.1(a)(ii)), in a case where the declaration under Rule 4.17(iv) is not appropriate:

in relation to [this] international application [No. PCT/...],

... (name) is entitled to apply for and be granted a patent by virtue of the following:

- (i) ... (name) of ... (address) is the inventor of the subject matter for which protection is sought by way of [the] [this] international application
- (ii) ... (name) [is] [was] entitled as employer of the inventor, ... (inventor's name)
- (iii) an agreement between ... (name) and ... (name), dated ...
- (iv) an assignment from ... (name) to ... (name), dated ...
- (v) consent from ... (name) in favor of ... (name), dated ...
- (vi) a court order issued by ... (name of court), effecting a transfer from ... (name) to ... (name), dated ...
- (vii) transfer of entitlement from ... (name) to ... (name) by way of ... (specify kind of transfer), dated ...
- (viii) the applicant's name changed from ... (name) to ... (name) on ... (date)
- (ix) this declaration is made for the purposes of (include as applicable):
 - (a) all designations [except the designation of the United States of America]
 - (b) the following designations for national and/or regional patents: ..."

Either (a) or (b) of item (ix) should always be included in the declaration. The remainder of the items may be incorporated as is necessary to explain the applicant's entitlement. *This declaration is only applicable to those events which have occurred prior to the international filing date.* The possible kinds of transfer of entitlement in item (vii) include merger, acquisition, inheritance, donation, etc. Where there has been a succession of transfers from the inventor, the order in which transfers are listed should follow the actual succession of transfers, and items may be included more than once, as necessary to explain the applicant's entitlement. Where the inventor is not indicated in Box No. II or No. III, this declaration may be presented as a combined declaration explaining the applicant's entitlement to apply for and be granted a patent and identifying the inventor. In such a case, the introductory phrase of the declaration must be as follows:

"Combined declaration as to the applicant's entitlement, as at the international filing date, to apply for and be granted a patent (Rules 4.17(ii) and 51bis.1(a)(ii)) and as to the identity of the inventor (Rules 4.17(i) and 51bis.1(a)(i)), in a case where the declaration under Rule 4.17(iv) is not appropriate:"

The remainder of the combined declaration must be worded as indicated in the preceeding paragraphs.

For details as to the declaration as to the identity of the inventor, see the Notes to Box No. VIII (i), above.

BOX No. VIII (iii)

Declaration as to the Applicant's Entitlement to Claim Priority of the Earlier Application (Rule 4.17(iii) and Section 213): The declaration must be worded as follows, with such inclusion, omission, repetition and re-ordering of the matters listed as items (i) to (viii) as is necessary to explain the applicant's entitlement:

"Declaration as to the applicant's entitlement, as at the international filing date, to claim the priority of the earlier application specified below, where the applicant is not the applicant who filed the earlier application or where the applicant's name has changed since the filing of the earlier application (Rules 4.17(iii) and 51bis.1(a)(iii)):

in relation to [this] international application [No. PCT/...],

... (name) is entitled to claim priority of earlier application No. ... by virtue of the following:

- (i) the applicant is the inventor of the subject matter for which protection was sought by way of the earlier application
- (ii) ... (name) [is] [was] entitled as employer of the inventor, ... (inventor's name)
- (iii) an agreement between ... (name) and ... (name), dated ...
- (iv) an assignment from ... (name) to ... (name), dated ...
- (v) consent from ... (name) in favor of ... (name), dated ...
- (vi) a court order, issued by ... (name of court), effecting a transfer from ... (name) to ... (name), dated ...
- (vii) transfer of entitlement from ... (name) to ... (name) by way of ... (specify kind of transfer), dated ...
- (viii) the applicant's name changed from ... (name) to ... (name) on ... (date)
- (ix) this declaration is made for the purposes of (include as applicable):
 - (a) all designations
 - (b) the following designations for national and/or regional patents: ..."

Either (a) or (b) of item (ix) should always be included in the declaration. The remainder of the items may be incorporated as is necessary to explain the applicant's entitlement. *This declaration is only applicable to those events which have occurred prior to the international filing date.* In addition, this declaration is only applicable where the person or name of the applicant is different from that of the applicant who filed the earlier application from which priority is claimed. For example, this declaration may be applicable where only one applicant out of five is different from the applicants indicated in respect of an earlier application. The possible kinds of transfer of entitlement in item (vii) include merger, acquisition, inheritance, donation, etc. Where there has been a succession of transfers from the applicant in respect of the earlier application, the order in which transfers are listed should follow the actual succession of transfers, and items may be included more than once, as necessary to explain the applicant's entitlement.

BOX No. VIII (iv)

Declaration of Inventorship (Rule 4.17(iv) and Section 214): The standardized wording for the declaration is pre-printed in Box No. VIII (iv).

All inventors must be named in the declaration, even if they do not all sign the same (copy of) the declaration (Section 214(b)). Bibliographic data, such as address of residence and citizenship, must be included for each inventor. Where the declaration is included in the request, the inventor(s) need not sign and date the declaration if they have signed in Box No. X of the request. If there are more than two inventors, those other inventors must be indicated on the "continuation sheet for declaration." In such a case, write "Continuation of Box No. VIII (iv)," and indicate only the bibliographical data in respect of each inventor. The text of the declaration itself should not be repeated on that continuation sheet. The inventor(s) identified on the continuation sheet must sign and date such sheet, unless the declaration, including the continuation sheet, is included with the request and the inventor(s) has (have) signed in Box No. X of the request.

BOX No. VIII (v)

Declaration as to Non-prejudicial Disclosures or Exceptions to Lack of Novelty (Rule 4.17(v) and Section 215): The declaration must be worded as follows, with such inclusion, omission, repetition and re-ordering of the matters listed as items (i) to (iv) as is necessary:

"Declaration as to non-prejudicial disclosures or exceptions to lack of novelty (Rules 4.17(v) and 51bis.1(a)(v)):

in relation to [this] international application [No. PCT/...],

... (name) declares that the subject matter claimed in [the] [this] international application was disclosed as follows:

- (i) kind of disclosure (*include as applicable*):
 - (a) international exhibition
 - (b) publication
 - (c) abuse
 - (d) other: ... (*specify*)
- (ii) date of disclosure: ...
- (iii) title of disclosure (*if applicable*): ...
- (iv) place of disclosure (*if applicable*): ...
- (v) this declaration is made for the purposes of (*include as applicable*):
 - (a) all designations
 - (b) the following designations for national and/or regional patents: ..."

Either (a), (b), (c) or (d) of item (i) should always be included in the declaration. Item (ii) should also always be included in the declaration. Either (a) or (b) of item (v) should always be included in the declaration. Items (iii) and (iv) may be incorporated depending upon the circumstances.

BOX No. IX

Items Constituting the International Application: The number of sheets of the various parts of the international application must be given in the check list in Arabic numerals. Sheets containing any of Boxes Nos. VIII (i) to (v) must be counted as part of the request.

Where the application contains disclosure of one or more *nucleotide and/or amino acid sequences*, the applicant has the following three options.

First, the applicant may choose to file the sequence listing and/or tables related thereto *in paper form only* ("option (a)"), in which case the number of sheets of the listing and/or tables, respectively, must be indicated under item (a) in the left column of Box No. IX (and therefore included in the total number of sheets), noting that a copy of the sequence listing and/or a copy of the tables, in computer readable form, may accompany the international application but only for the purposes of international search under Rule 13ter and/or Section 802(b-quater); in such a case, check-boxes Nos. 9, 9(i) and/or 10(i) and, where applicable, 9(iii) and/or 10(iii) must be marked in the right column of Box No. IX.

Second, the applicant may choose to file the sequence listing and/or tables related thereto *in computer readable form only*, under Section 801(a)(i) ("option (b)"), in which case check-boxes b(i) and/or b(ii) must be marked but the spaces for the number of sheets of the sequence listing and/or tables, respectively, under item (a) must be left blank; the type and number of carriers must also be indicated on the dotted lines at the bottom of the left column; in addition, check-boxes Nos. 9, 9(ii) and/or 10(ii) and, where applicable, 9(iii) and/or 10(iii) must be marked if additional copies of the sequence listing and/or tables in computer readable form are furnished.

Third, the applicant may choose to file the sequence listing and/or tables related thereto *both in computer readable form*

and in paper form, under Section 801(a)(ii) ("option (c)"), in which case the number of sheets (in paper form) of the sequence listing and/or tables, respectively, must be indicated under item (a) in the left column of Box No. IX (although those numbers of sheets will not be taken into account for calculation of the international filing fee) and check-boxes c(i) and/or c(ii), respectively, must be marked; the type and number of carriers must also be indicated on the dotted lines at the bottom of the left column; in addition, check-boxes Nos. 9, 9(ii) and/or 10(ii) and, where applicable, 9(iii) and/or 10(iii) must be marked if additional copies of the sequence listing and/or tables in computer readable form are furnished.

Under all three options described above, the sequence listing must be presented as a separate part of the description ("sequence listing part of description") in accordance with the standard contained in Annex C of the Administrative Instructions. Also, tables related to sequence listing must be presented in accordance with the standard contained in Annex C-bis of the Administrative Instructions.

Items Accompanying the International Application:

Where the international application is accompanied by certain items, the applicable check-boxes must be marked, any applicable indication must be made on the dotted line after the applicable item, and the number of such items should be indicated at the end of the relevant line; detailed explanations are provided below only in respect of those items which so require.

Check-box No. 4: Mark this checkbox where a copy of a general power of attorney is filed with the international application; where the general power of attorney has been deposited with the receiving Office, and that Office has accorded to it a reference number, that number may be indicated.

Check-box No. 5: Mark this check-box where a statement explaining the lack of signature of an inventor/applicant for the purposes of the United States of America is furnished together with the international application (see also Notes to Box No. X).

Check-box No. 7: Mark this check-box where a translation of the international application for the purposes of international search (Rule 12.3) is filed together with the international application and indicate the language of that translation.

Check-box No. 8: Mark this check-box where a filled-in Form PCT/RO/134 or any separate sheet containing indications concerning deposited microorganisms and/or other biological material is filed with the international application. If Form PCT/RO/134 or any sheet containing the said indications is included as one of the sheets of the description (as required by certain designated States (see the *PCT Applicant's Guide*, Volume I/B, Annex L)), do not mark this check-box (for further information, see Rule 13bis and Section 209).

Check-box No. 9: Where the international application contains a sequence listing and a copy thereof in computer readable form is required by the ISA under Rule 13ter, the applicant may furnish the listing in computer readable form (together with the required statement) to the receiving Office with the international application, in which case check-boxes Nos. 9, 9(i) and, where applicable, 9(iii) must be marked. Where the applicant has chosen option (b) or option (c) mentioned above, and an additional copy or copies of the sequence listing in computer readable form are required under Section 804, the applicant may furnish such additional copies together with the international application, in which case check-boxes Nos. 9, 9(ii) and, where applicable, 9(iii) must be marked. In all cases mentioned above, the applicant should indicate at the end of each applicable entry the type and number of diskettes, CD-ROMs, CD-Rs, or other data carriers furnished.

Check-box No. 10: Where the international application contains tables related to a sequence listing and a copy thereof in computer readable form is required by the ISA under Section 802(b-quater), the applicant may furnish the tables in

computer readable form (together with the required statement) to the receiving Office with the international application, in which case check-boxes Nos. 10, 10(i) and, where applicable, 10(iii) must be marked. Where the applicant has chosen option (b) or option (c) mentioned above, and an additional copy or copies of the tables in computer readable form are required under Section 804, the applicant may furnish such additional copies together with the international application, in which case check-boxes Nos. 10, 10(ii) and, where applicable, 10(iii) must be marked. In all cases mentioned above, the applicant should indicate at the end of each applicable entry the type and number of diskettes, CD-ROMs, CD-Rs, or other data carriers furnished.

Language of Filing of the International Application (Rules 12.1(a) and 20.4(c) and (d)): With regard to the language in which the international application is filed, for the purposes of according an international filing date, it is, subject to the following sentence, sufficient that the description and the claims are in the language, or one of the languages, accepted by the receiving Office for the filing of international applications; that language should be indicated in that check-box (as regards the language of the abstract and any text matter in the drawings, see Rule 26.3ter(a) and (b); as regards the language of the request, see Rules 12.1(c) and 26.3ter(c) and (d)). Note that where the international application is filed with the United States Patent and Trademark Office as receiving Office, all elements of the international application (request, description, claims, abstract, text matter of drawings) must, for the purposes of according an international filing date, be in English except that the free text in any sequence listing part of the description, complying with the standard set out in Annex C of the Administrative Instructions, may be in a language other than English.

BOX No. X

Signature (Rules 4.1(d), 4.15, 26.2bis(a), 51bis.1(a)(vi), 90 and 90bis.5): The signature must be that of the applicant; if there are several applicants, all must sign. However, if the signature of one or more of the applicants is missing, the receiving Office will not invite the applicant to furnish the missing signature(s) provided that at least one of the applicants signed the request.

Important: Should a notice of withdrawal be filed at any time during the international phase, that notice will have to be signed by the applicant or, if there are two or more applicant's by all of them (Rule 90bis.5(a)), or by an agent or a common representative whose appointment has been effected by each applicant signing, at his choice, the request, the demand or a separate power of attorney (Rule 90.4(a)).

Furthermore, for the purposes of the national phase processing, each designated Office will be entitled to require the applicant to furnish the confirmation of the international application by the signature of any applicant for the designated State concerned, who has not signed the request.

Where the signature on the request is not that of the applicant but that of the agent, or the common representative, a separate power of attorney appointing the agent or the common representative, respectively, or a copy of a general power of attorney already in the possession of the receiving Office, must be furnished. If the power is not filed with the request, the receiving Office will invite the applicant to furnish it, unless it has waived the requirement for a separate power of attorney (for details about each receiving Office, see the *PCT Applicant's Guide*, Volume I/B, Annex C).

If an inventor/applicant for the designation of the United States of America refused to sign the request or could not be found or reached after diligent effort, a statement explaining the

lack of signature may be furnished. It should be noted that this applies only where there are two or more applicants and the international application has been signed by at least one other applicant. The statement must satisfy the receiving Office. If such a statement is furnished with the international application, check-box No. 5 in Box No. IX should be marked.

SUPPLEMENTAL BOX

The cases in which the Supplemental Box may be used and the manner of making indications in it are explained in the left column of that Box.

Items 2 and 3: Even if an indication is made in respect of items 2 and 3 under Rule 49bis.1(a), (b) or (d), the applicant will be required to make an indication to this effect upon entry into the national phase before the designated offices concerned.

If the applicant wishes to specify that the international application be treated in any designated State as an application for a utility model, see Notes to Box No. V.

GENERAL REMARKS

Language of Correspondence (Rule 92.2 and Section 104): Any letter from the applicant to the receiving Office must be in the language of filing of the international application provided that, where the international application is to be published in the language of a translation required under Rule 12.3, such letter should be in the language of that translation; however, the receiving Office may authorize the use of another language.

Any letter from the applicant to the International Bureau must be in the same language as the international application if that language is English or French; otherwise, it must be in English or French, at the choice of the applicant.

Any letter from the applicant to the ISA must be in the same language as the international application, provided that, where a translation of the international application for the purposes of international search has been transmitted under Rule 23.1(b), such letter is in the language of that translation. However, the ISA may authorize the use of another language.

Arrangement of Elements and Numbering of Sheets of the International Application (Rule 11.7 and Section 207): The elements of the international application must be placed in the following order: the request, the description (excluding the sequence listing part, if any), the claim(s), the abstract, the drawings (if any), the sequence listing part of the description (if any).

All sheets of the description (excluding the sequence listing part), claims and abstract must be numbered in consecutive Arabic numerals, which must be placed at the top or bottom of the sheet, in the middle, but not in the margin which must remain blank. The number of each sheet of the drawings must consist of two Arabic numerals separated by an oblique stroke, the first being the sheet number and the second being the total number of sheets of drawings (for example, 1/3, 2/3, 3/3). For numbering of the sheets of the sequence listing part of the description, see Section 207.

Indication of the Applicant's or Agent's File Reference on the sheets of the description (excluding the sequence listing part, if any), claim(s), abstract, drawings and sequence listing part of the description (Rule 11.6(f)): The file reference indicated on the request may also be indicated in the left-hand corner of the top margin, within 1.5 cm from the top of any sheet of the international application.

This sheet is not part of and does not count as a sheet of the international application.

PCT

FEE CALCULATION SHEET

Annex to the Request

For receiving Office use only

International Application No.

Date stamp of the receiving Office

Applicant's or agent's
file reference

09923-017

Applicant

TM4 INC. et al.

CALCULATION OF PRESCRIBED FEES

1. TRANSMITTAL FEE 300 **T**

2. SEARCH FEE 1600 **S**

International search to be carried out by

CA

(If two or more International Searching Authorities are competent to carry out the international search, indicate the name of the Authority which is chosen to carry out the international search.)

3. INTERNATIONAL FILING FEE

Where items (b) and/or (c) of Box No. IX apply, enter **Sub-total number of sheets** } 22
Where items (b) and (c) of Box No. IX do not apply, enter **Total number of sheets** }

i1 first 30 sheets 1489 **i1**

i2 _____ x _____ = **i2**
number of sheets fee per sheet
in excess of 30

i3 additional component (only if sequence listing and/or tables related thereto are filed in computer readable form under Section 801(a)(i), or both in that form and on paper, under Section 801(a)(ii)):

400 x _____ = **i3**
fee per sheet

Add amounts entered at i1, i2 and i3 and enter total at **I** 1489 **I**

(Applicants from certain States are entitled to a reduction of 75% of the international filing fee. Where the applicant is (or all applicants are) so entitled, the total to be entered at I is 25% of the international filing fee.)

4. FEE FOR PRIORITY DOCUMENT (if applicable) **P**

5. TOTAL FEES PAYABLE 3389

Add amounts entered at T, S, I and P, and enter total in the TOTAL box

TOTAL

MODE OF PAYMENT

☐ authorization to charge
deposit account (see below)

☐ postal money order

☐ cash

☐ coupons

☐ cheque

☐ bank draft

☐ revenue stamps

☒ other (specify): credit card

AUTHORIZATION TO CHARGE (OR CREDIT) DEPOSIT ACCOUNT

(This mode of payment may not be available at all receiving Offices)

☐ Authorization to charge the total fees indicated above.

☐ (This check-box may be marked only if the conditions for deposit accounts of the receiving Office so permit) Authorization to charge any deficiency or credit any overpayment in the total fees indicated above.

☐ Authorization to charge the fee for priority document.

Receiving Office: RO/ _____

Deposit Account No.: _____

Date: _____

Name: _____

Signature: _____

NOTES TO THE FEE CALCULATION SHEET (ANNEX TO FORM PCT/RO/101)

The purpose of the fee calculation sheet is to help the applicant to identify the prescribed fees and to calculate the amounts to be paid. It is strongly recommended that the applicant complete the sheet by entering the appropriate amounts in the boxes provided and submit the fee calculation sheet at the time of filing the international application. This will help the receiving Office to verify the calculations and to identify any error in them.

Information about the applicable fees payable can be obtained from the receiving Office. The amounts of the international filing and search fees may change due to currency fluctuations. Applicants are advised to check what are the latest applicable amounts. All fees, must be paid within one month from the date of receipt of the international application.

CALCULATION OF PRESCRIBED FEES

Box T: Transmittal Fee for the benefit of the receiving Office (Rule 14.1): The amount of the transmittal fee, if any, is fixed by the receiving Office. It must be paid within one month from the date of receipt of the international application by the receiving Office. Information about this fee is contained in the *PCT Applicant's Guide*, Volume I/B, Annex C.

Box S: Search Fee for the benefit of the International Searching Authority (ISA) (Rule 16.1): The amount of the search fee is fixed by the ISA. It must be paid within one month from the date of receipt of the international application by the receiving Office. Information about this fee is contained in the *PCT Applicant's Guide*, Volume I/B, Annex D.

Where two or more ISAs are competent, the applicant must indicate his choice in the space provided for this purpose and pay the amount of the international search fee fixed by the ISA chosen. Information on the competent ISA and whether the applicant has a choice between two or more ISAs is contained in the *PCT Applicant's Guide*, Volume I/B, Annex C.

Box I: International Filing Fee for the benefit of the International Bureau (Rule 15): The amount of the international filing fee is as set out in Swiss francs in the Schedule of Fees and the applicable amount of this fee in other currencies is as published in the *PCT Gazette* (Rule 15.2). Information about this fee is also contained in the *PCT Applicant's Guide*, Volume I/B, Annex C.

Reduction of the International Filing Fee Where PCT-EASY Software Is Used: A fee reduction of 100 Swiss francs (or the equivalent in the currency in which the international filing fee is paid to the receiving Office) is available in certain cases where the PCT-EASY software is used to prepare the request, provided that the necessary conditions are met. For further details, see the *PCT Applicant's Guide*, Volume I/A, General Part, and Volume I/B, Annex C, as well as information published in the *PCT Gazette* and the *PCT Newsletter*. Since applicants using the PCT-EASY software will file the Request Form and Fee Calculation Sheet in the form of a printout prepared using that software, no provision is made for this fee reduction in the Fee Calculation Sheet annexed to Form PCT/RO/101.

Reduction of the International Filing Fee Where the International Application Is Filed in Electronic Form: The international filing fee is reduced by 200 Swiss francs (or the equivalent in the currency in which the international filing fee is paid to the receiving Office) if the international application is, in accordance with and to the extent provided for in Part 7 and Annex F of the Administrative Instructions, filed in electronic form where the text of the description, claims and abstract is not in character coded format, or by 300 Swiss francs (or the equivalent in the currency in which the international filing fee is paid to the receiving Office) where the international application is filed in electronic form where the text of the description, claims and abstract is in character coded format. For further details, see the *PCT Applicant's*

Guide, Volume I/A, General Part, and Volume I/B, Annex C, as well as information published in the *PCT Gazette* and the *PCT Newsletter*. Since international applications filed in electronic form will contain the Request Form and Fee Calculation Sheet in such electronic form, no provision is made for this fee reduction in the Fee Calculation Sheet annexed to Form PCT/RO/101.

Reduction of the International Filing Fee for Applicants from Certain States: An applicant who is a natural person and who is a national of and resides in a State whose per capita national income is below 3,000 US dollars (according to the average per capita national income figures used by the United Nations for determining its scale of assessments for the contributions payable for the years 1995, 1996 and 1997) or an applicant, whether a natural person or not, who is a national of and resides in a State that is classed as a least developed country by the United Nations, is entitled, to a reduction of 75% of certain PCT fees including the international filing fee. If there are several applicants, each must satisfy the above-mentioned criteria. The reduction of the international filing fee is automatically available to any applicant (or applicants) who is (or are) so entitled on the basis of the indications of name, nationality and residence given in Boxes Nos. II and III of the request.

The fee reduction is available even if one or more of the applicants are not from PCT Contracting States, provided that each of them is a national and resident of a State that meets the above-mentioned requirements and that at least one of the applicants is a national or resident of a PCT Contracting State and thus is entitled to file an international application.

Information about PCT Contracting States whose nationals and residents are entitled to a reduction of 75% of certain PCT fees, including the international filing fee, is contained in the *PCT Applicant's Guide*, Volume I/B, Annex C and on the WIPO Website (see <http://www.wipo.int/pct/en/index.html>), and is also published and regularly updated in the *PCT Gazette* and the *PCT Newsletter*.

Calculation of the International Filing Fee in Case of Fee Reduction: Where the applicant is (or all applicants are) entitled to a reduction of the international filing fee, the total to be entered in box I is 25% of the international filing fee (see below).

Box I: International Filing Fee: The amount of the international filing fee depends on the number of sheets of the international application indicated under item (a) of Box No. IX of the request as explained below.

That number is the **Total number of sheets** where items (b) and (c) of Box No. IX of the request do not apply (that is, where the international application either does not contain a sequence listing and/or tables related thereto or where it contains such listing and/or tables but not filed in computer readable form under Section 801(a)(i) or (ii)); in such a case, item "i3" must not be filled in.

Otherwise, where items (b) and/or (c) of Box No. IX of the request apply (that is, where the international application contains a sequence listing and/or tables related thereto which are filed in computer readable form only, under Section 801(a)(i), or both in that form and in paper form under Section 801(a)(ii)), the number of sheets to be used for the purpose of calculating the amount of the international filing fee is the **Sub-total number of sheets**. In such a case, item "i3" must be filled in on the basis that the sequence listing and/or tables related thereto in computer readable form are considered to be equal to 400 sheets (see Section 803).

The international filing fee must be paid within one month from the date of receipt of the international application by the receiving Office.

Box P: Fee for Priority Document (Rule 17.1(b)): Where the applicant has requested, by marking the applicable check-box in Box No. VI of the request, that the receiving Office prepare and transmit to the International Bureau a certified copy of the earlier application the priority of which is claimed, the amount of the fee prescribed by the receiving Office for such service may be entered (for information, see the *PCT Applicant's Guide*, Volume I/B, Annex C).

If that fee is not paid at the latest before the expiration of 16 months from the priority date, the receiving Office may consider the request under Rule 17.1(b) as not having been made.

Total Box: The total of the amounts entered in boxes T, S, I and P should be entered in this box. If the applicant so wishes, the currency in which the fees are paid may be indicated next to or in the total box.

MODE OF PAYMENT

In order to help the receiving Office identify the mode of payment of the prescribed fees, it is recommended that the applicable check-box(es) be marked.

AUTHORIZATION TO CHARGE (OR CREDIT) DEPOSIT ACCOUNT

The receiving Office will not charge (or credit) fees to deposit accounts unless the deposit account authorization is signed and indicates the deposit account number.

**This Page is Inserted by IFW Indexing and Scanning
Operations and is not part of the Official Record**

BEST AVAILABLE IMAGES

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images include but are not limited to the items checked:

- ☐ BLACK BORDERS
- ☐ IMAGE CUT OFF AT TOP, BOTTOM OR SIDES
- ☒ FADED TEXT OR DRAWING
- ☒ BLURRED OR ILLEGIBLE TEXT OR DRAWING
- ☐ SKEWED/SLANTED IMAGES
- ☐ COLOR OR BLACK AND WHITE PHOTOGRAPHS
- ☐ GRAY SCALE DOCUMENTS
- ☒ LINES OR MARKS ON ORIGINAL DOCUMENT
- ☒ REFERENCE(S) OR EXHIBIT(S) SUBMITTED ARE POOR QUALITY
- ☐ OTHER: _____

IMAGES ARE BEST AVAILABLE COPY.

As rescanning these documents will not correct the image problems checked, please do not report these problems to the IFW Image Problem Mailbox.